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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,683	07/24/2003	Akimitsu Sugiura	2018-746	1086
23117	7590 08/11/2004		EXAM	INER
	ANDERHYE, PC		NGUYEN,	TUYEN T
1100 N GLEE 8TH FLOOR			ART UNIT	PAPER NUMBER
	N, VA 22201-4714		2832	
			DATE MAILED: 08/11/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

, -			Application	No.	Applicant(s)	A
			10/625,683	ı	SUGIURA ET AL.	•
	Office Action Summary		Examiner		Art Unit	
_			TUYEN T N	GUYEN	2832	
Pariod f	The MAILING DATE of this commun or Reply	ication appe	ars on the	cover sheet with the o	correspondence add	iress
A SH THE - Exte afte - If th - If No - Faile Any	HORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN ensions of time may be available under the provisions or SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (5) of period for reply is specified above, the maximum sure to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(munication. 30) days, a reply water that the control of the control o	(a). In no even within the statute apply and will ause the applic	t, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed ys will be considered timely the mailing date of this co ED (35 U.S.C. § 133).	mmunication.
Status						
1)	Responsive to communication(s) file	ed on				
	• •	2b)⊠ This a		n-final.		
3)	, —					
Disposit	tion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>4-6</u> is/are pending in the ap 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>4-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	re withdrawr				
Applicat	ion Papers					
9)[The specification is objected to by the	e Examiner.				
10)[The drawing(s) filed on is/are	: а)[] ассер	oted or b)□	objected to by the	Examiner.	
	Applicant may not request that any obje			•	` ,	
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	-	·		-	, ,
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents ! documents I of the priority onal Bureau (have been have been y documer (PCT Rule	received. received in Applicat ts have been receive 17.2(a)).	ion No. <u>09/023,613</u> ed in this National S	
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	ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or		•	Paper No(s)/Mail D Notice of Informal F		-152)
	er No(s)/Mail Date <u>3/27/2004</u> .	1 10/30/00)		6) Other:	PENSON (I 10	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 4, there is no antecedent basis for "at least one of the two longitudinal end corners of the central core assembly." Applicant should clarify the end corners structure of the rod-shaped core. Applicant should clarify the arrangement/structure of the space relative to the end corners of the central core assembly.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 4, as best understood in view of the rejection under 112 second paragraph, is rejected under 35 U.S.C. 102(a) as being anticipated by Adachi et al. [EPO 0 703 588 A1].

Adachi et al. discloses an ignition coil comprising:

- a central core assembly [502];

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- primary and secondary spools [514, 510];
- primary and secondary coils [516, 512] wound on the primary and secondary spools, respectively; and
- insulating member filled around the core.

wherein at least one of the two longitudinal end corners of the central core assembly is surrounded by a space [figure 1A].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-6, as best understood in view of the rejection under 112 second paragraph, rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al. [EPO 0 703 588 A1] in view of Ebinuma et al. [US 4,744,337].

Adachi et al. discloses an ignition coil comprising:

- a central core assembly [502];
- a case member [100];
- primary and secondary spools [514, 510];
- primary and secondary coils [516, 512] wound on the primary and secondary spools, respectively; and

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- insulating member filled around the core.

wherein at least one of the two longitudinal end corners of the central core assembly is surrounded by a space [figure 1A].

Adachi et al. discloses the instant claimed invention except for the buffer structure.

Ebinuma et al. discloses a core [39, figure 21] assembly for an ignition coil including a plurality of laminated magnetic plate [613] being cover by synthetic resin film [615] acting as a buffer structure.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the buffer design of Ebinuma et al. in the core assembly of Adachi et al. for the purpose of protecting the core assembly.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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